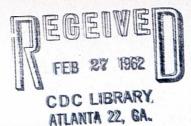
REPORT NO. 251 FEBRUARY 23, 1962



COMMUNICABLE DISEASE CENTER

# POLIOMYELITIS

#### SURVEILLANCE

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SUPPLEMENT: INDEX TO 1961 PSU REPORTS

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U. S. DEPARTMENT OF
HEALTH, EDUCATION, AND WELFARE
PUBLIC HEALTH SERVICE

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## **PREFACE**

Summarized in this report is information received from State Health Departments, university investigators, virology laboratories and other pertinent sources, domestic and foreign. Much of the information is preliminary. It is intended primarily for the use of those with responsibility for disease control activities. Anyone desiring to quote this report should contact the original investigator for confirmation and interpretation.

Contributions to the Surveillance Report are most welcome. Please address to: Chief, Poliomyelitis Surveillance Unit, Communicable Disease Center, Atlanta 22, Georgia.

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#### <u>SUMMARY</u>

Weekly telegraphic reports of poliomyelitis reached a record low of two cases, one paralytic, during the seventh week ending February 17. To date in 1962 only 55 cases, 32 paralytic, have been reported.

A number of additional community oral poliovaccine programs were carried out during late 1961 and early 1962. Included in Section 2 is a detailed listing of these together with the results of continuing programs in Hillsborough County (Tampa), Florida, and Newberry County, South Carolina.

The latest count of poliovirus isolations throughout the nation is presented along with the status of 60-day follow-up case records and routine surveillance.

Also included in this issue is the 1961 summary report of non-polio enterovirus isolates.

Featured in Section 6 is a report of the 1961 Canadian poliomyelitis incidence together with further details of the Japanese experience and concurrent nation-wide use of oral poliovaccine.

The supplement to this PSU Report contains the index to the 1961 PSU Reports.

#### 1. CURRENT POLIOMYELITIS MORBIDITY TRENDS

The number of cases of poliomyelitis reported during the four-week period ending February 17 remained at an expected seasonal ebb. Moreover, the seventh week ending February 17 brought a record low of telegraphic reports with two cases, one paralytic. (See Table I).

Comparative incidence in recent years is presented in Figure 1. Only 55 cases, 32 paralytic, gave been reported thus far in 1962 as shown below. Only 16 of the 50 reporting States have accounted for these.

The table below presents current cumulative incidence compared with that of recent years.

	1962	1961	1960	1959	1958
Paralytic	32	36	101	105	77
Total	55	67	143	147	138

#### 2. ORAL POLIOVACCINE PROGRAMS

#### A. Tampa, Florida

Approximately 172,000 persons residing in Hillsborough County (Tampa), Florida, were fed trivalent oral vaccine during the community-wide program on February 4-11. A second feeding of the trivalent vaccine is planned in late March or early April. This represents the first community feeding of a trivalent mixture of Sabin strains.

#### B. Newberry County, South Carolina

On February 8, 1962, the residents of this county were offered type I oral poliovaccine from the epidemic reserve of the United States Public Health Service. This program was to augment the immunization started in October, 1961 when type III oral vaccine was given during an epidemic of type III poliomyelitis.

In October, 92 percent of the white and 89 percent of the non-white population under 40 years of age received type III oral vaccine (See PSU Report #247). The February feeding reached a total of 21,281 persons: 92 percent of the white and 80 percent of the non-white population under age 40. On both occassions, 99 percent of the school age population was fed.

Type II oral vaccine will be given on March 29 to complete the immunization.

#### C. Other Programs

The following table lists nine oral vaccine programs conducted during late 1961 and early 1962 in addition to previously described programs (See PSU Report #245). The largest of these was in Maricopa County (Phoenix) Arizona, where 600,000 doses of type I vaccine were administered in January.

		Oral	Poliovaccines	*
Area ragmoo oonabloni avita	<u>Year</u>	Type I		Type III
Youngstown, Ohio	1961	136,000	ecent years.	that of r
Youngstown, Ohio	1962	1881 C38	100,000**	-
Wasco - Sherman Co., Ore.	1961	11,000		
Zanesville, Ohio	1961	45,000	- Living	4
Columbia Co., Oregon	1962	10,000		
Maricopa Co., Arizona	1962	600,000	- late	-
Waterville, Maine	1962	20,000**	-	
Wayne Co., Ohio	1962	60,000**	-	
Clarke Co., Nevada	1962	75,000	*******	

<sup>\*</sup> Sabin strains

<sup>\*\*</sup> Estimate

#### 3. 1961 POLIOMYELITIS REPORTED TO PSU

#### A. Poliomyelitis Surveillance Case Records

The cumulative total of poliomyelitis cases (onset in 1961) submitted to the Poliomyelitis Surveillance Unit on individual case forms now stands at 1,295 through February 17, 1962. This total represents 98 percent of the 1,327 cases reported by weekly telegrams to the CDC Morbidity and Mortality Unit during 1961.

The subsequent 60-day follow-up clinical evaluations have been received on 1,124 cases or 85 percent of the cases reported to MM/R. This 60-day follow-up study of each case to determine and yield more accurate clinical and laboratory data has been endorsed by the State epidemiologists since 1958.

In 1958, the PSU received such 60-day follow-up reports on 80 percent of the reported cases of poliomyelitis. In 1959, this follow-up reporting improved to 87 percent, and in 1960 a full 94 percent of reported cases was reached.

As we approach the cut-off date of February 28, 1962, 203 cases without 60-day follow-up remain outstanding. With only a few States accounting for the bulk of follow-up forms not yet submitted, the goal of 100 percent is within reach by the end of February.

Of the 1,295 now reported on preliminary case forms, 937 are paralytic, 327 nonparalytic and 31 unspecified as to paralytic status. These cases are presented below in Table 3A by age group and vaccination history.

Table 3A

1961 POLIOMYELITIS CASES BY PARALYTIC STATUS, AGE GROUP
AND VACCINATION HISTORY REPORTED ON PSU FORMS
(Through February 17, 1962)

				2.4	Par	calytic	1		
Age									
Group		0	1	2	3	4+	Unk	TOTAL	Percent
0-4		202	33	33	38	26	14	346	36.9
5-9		67	15	21	50	42	5	200	21.3
10-14		30	6	11	25	29	7	108	11.5
15-19		18	1	7	20	9	0	55	5.9
20-29		74	6	10	16	8	10	115	12.3
30-39		57	6	6	2	4	5	80	8.5
40+	A	28	1	0	1	- 1	2	33	3.5
TOTAL	7.1	476	68	88	152	119	34	937	100.0
PERCENT DOSES	(opan	52.7	7.5	9.7	16.8	13.2	_	100.0	

#### Table 3A (Continued)

#### 1961 POLIOMYELITIS CASES BY PARALYTIC STATUS, AGE GROUP AND VACCINATION HISTORY REPORTED ON PSU FORMS (Through February 17, 1962)

	loti ak ***	ouset	) 208	SQ R.		aralyt		of eviltalimen	o sill
Age	BU BULL	FLETT	810 0	THE S	Doses	of Vac	cine	GHEAT CAN DATE OF	
Group	zenjen i Walio	0	SLIP.	2	3	4+	Unk	TOTAL	Percent
0-4		21	5	10	9	9	3	11 min 57 U v	17.4
5-9		20	2	7	23	33	11	96	29.4
10-14	as have	8	5	'7	17	20	8	65	20.0
15-19		5	9 2 B	4	8	10	194 <b>1</b> 48	30	9.2
20-29		18	0	7	16	118°	3	55	16.8
30-39	abiqs 51	11	0	0	4	negi e	3	19	5.8
40+		1	0	0	1	2	1	5	_1.5
TOTAL		84	14	35	78	86	30	327	100.0
PERCENT DOSES	obets on 13 ow—Wg reconsted	28.3	4.7	11.8	26.3	28.9	avtener mo <u>ifo</u> g st bes	100.0	the report

#### B. Poliovirus Isolations

Poliovirus isolates have now been reported from 434 of the 1,295 cases reported to the Poliomyelitis Surveillance Unit. Type I poliovirus remains slightly more prevalent accounting for 248 (57 percent) of the isolations. Forty-two percent of the isolations are type III with the remaining one percent due to type II. Laboratory reports on the 1961 cases submitted to PSU through the end of February may be submitted through June 30, 1962.

The isolations are shown below by State:

Table 3B

1961 FOLIOVIRUS ISOLATIONS BY STATE\*

State		Type I	Type :	П	Type	III		TOTAL
Alabama Arkansas	JATOT	_enioc	0 Va.	Doses	8		0	- 8 - 7
California Connecticut	345	14	26	88	εξ. 4	33	202	18
Dist. of Col.	200		_42 29	. 50 . 25	<b>6</b> 21	15	67 30	3
Florida	. 22	<b>6</b> 0	0 _	20	3		18	9
Georgia Hawaii	08	2 2	° -	2	16 -	9	76	18 2
Idaho Illinois	33	2⊆ 2►8	<u> </u>	152	0_ <b>3</b>	88	476	6

(continued on next page)

0.001

<sup>\*</sup> From 1961 cases reported to PSU through February 17, 1962.

Table 3B (Continued)

### 1961 POLIOVIRUS ISOLATIONS BY STATE\*

State of - speeds of	Type I	Type II	Type III	TOTAL	
Indiana	ys: 31. 11.11 3 <sub>e</sub> .02. 0	er he <sup>-</sup> coma	1950 S 181 (3	71) 90 <b>3</b> 0007 09187	
Kansas	1 abrus	ing to dem	at the Land a	range and the first and the	
Kentucky	1	-	<u> </u>	40	
Louisiana	32	1	7	38	
Maryland	1	1 worre	37	30	
Michigan	. 8	162 <del>11</del> 0	.l.ad	9	
Minnesota	2		<b>4</b> -1	6 edate	
Mississippi	11	a California and a second	2	13	
Missouri	1	2	a-ej <b>l</b> i k	y 4 camead	
New Hampshire	- I	- I	e il	i 1 cremons	
New Jersey	3 3	evell 35 mid	319 <b>4</b> 810 di	11 55207 -5	
New York	96	-	9	105	
North Carolina	1 C <del></del>	olean <del>a</del> to s	gg 2 1 Lun	oldibbe on b	
Ohio	14	AND THEFT	30 44 1509T	19 - <b>18</b> 14 minus	
Oregon	dest 101 9	1-11-5	inu Janilite	ing the same of the	
	12	to later i	13	25	
Pennsylvania	1	-	_	1	
Rhode Island	i	- Jaco	24	25	
South Carolina	3		4	. Jack Toli . man	
Tennessee	4	- 12 AV - 12 VI		4 made 14	
Texas	har baran				
174 . 1.	2	· · · · ·	1	3	
Utah	5	* <b>_</b>	Note to House Aug	<b>5</b> . 0	
Vermont	_	_	3	3	
Virginia	2	and the state of	10	12	
Washington West Virginia	5.01	moni sulc	gir aş <del>T</del> arası 9	Tringen 5 an emics	
Wisconsin	2	the end	11	<u>14</u>	
	mant to a		reduces all	434	
TOTAL	248	6 h	180	798 Augeste Strategy (St., Presentation who was to be	
PERCENT (1961)	57.1	1.4	41.5	100.0	
Co-Modrabeno Lancios			orario ici wate	reen manama derr 1 A. s. erreest na	
Mark symply of intoined	11 8 4 E	DOLL Alexand	h February 1	7. 1962.	

<sup>\*</sup> From 1961 cases reported to PSU through February 17, 1962.

and 52 million (cols) in 1960. At the end of the year, the inventory of the wastipped veccine sworthet a. Out cole which is roughly one-fourth the ac-

#### 4. ROUTINE POLIOMYELITIS SURVEILLANCE - 1961

#### A. Cases With Onset Within 30 Days of Vaccination (Inactivated)

During the four week period from January 21 to February 17, 1962, two cases of poliomyelitis with onset within 30 days of receiving inactivated vaccine (IPV) have been reported to the Poliomyelitis Surveillance Unit. This brings the 1961 total of IPV under-30-day cases to 37, of which 26 are paralytic.

The 2 cases are listed below:

State	Age Sex		Date Inoculated	Onset Interval (Days)	Mfr.	Lot <u>No.</u>	
Missouri	9	М	10-19-61	12	Lilly	Unk.	
Vermont	4	M	12-10-61	11	Lilly	3125-782076	

#### B. Cases With Onset Within 30 Days of Vaccination (Oral)

One additional 1961 case of paralytic poliomyelitis with onset within 30 days of receiving oral vaccine (OPV) has been reported to the Poliomyelitis Surveillance Unit during the four week period ending February 17, 1962. This brings the 1961 total of OPV under-30-day cases to 34, of which 26 are paralytic.

The case reported this week is a 23 month old female from Chautauqua County, New York, who was fed type I oral poliovaccine on December 9 and had onset of disease on December 16. The child had previously received 4 doses of inactivated vaccine.

#### C. <u>Vaccine</u> <u>Distribution</u>

A summary of current and cumulative shipments of inactivated poliovaccine and multiple antigen vaccine from 1955 to 1961 is presented in tables II and III and figure 2 at the end of this report.

In table II, the quarterly shipments of inactivated vaccine are shown since April, 1955. Through the end of 1961, 400 million cc's of poliomyelitis vaccine have been shipped for use in the United States. Of the 400 million cc's, 47 percent have been shipped to public agencies, 45 percent through commercial channels, 4 percent to the National Foundation and 4 percent as part of quadruple antigen. This is depicted in Figure 2. An additional lll million cc's have been produced for export use.

Shipments of vaccine decreased for the second consecutive year during 1961. The 46 million (cc's) in 1961 compares to 68 million (cc's) in 1959 and 52 million (cc's) in 1960. At the end of the year, the inventory of unshipped vaccine stood at 4,038,000 cc's which is roughly one-fourth the inventory on hand at the close of 1960.

#### 5. ENTEROVIRUS SURVEILLANCE - FINAL REPORT, 1961

A total of 1,320 nonpolio enterovirus isolates were reported to the Poliomyelitis Surveillance Unit during 1961. The predominant type encountered was Coxsackie B5 which accounted for approximately 57 percent of isolates reported. Numerous family and neighborhood clusters of aseptic meningitis, pleurodynia and obscure febrile illness were ultimately attributed to this organism. A wide geographic range was evident with isolates reported from the eastern seaboard through the midwest and northwest.

Coxsackie B2 and B4 were found much less frequently. A mid-year outbreak of febrile illness in rural Washington State accounted for roughly 50 percent of B2 isolates reported, while B4 was encountered largely in the Hartford and New Haven areas in Connecticut, in New Jersey and in Tennessee.

ECHO virus isolates were generally scattered. Notable exceptions were the repeated isolations of ECHO 11 in eastern Minnesota and ECHO 10 in Illinois. Several specimens from a sizable outbreak of aseptic meningitis in Howard County, Texas, yielded ECHO 9.

The following table presents a final listing of reported non-polio enteroviruses and concludes the 1961 report year. Subsequent PSU Reports will present data on 1962 isolates. Occasionally, delayed 1961 reports when not marked as such may be included in individual State and cumulative figures. Any figures needing correction should be reported to the Poliomyelitis Surveillance Unit.

Non-Polio Enterivorus Isolations from 1961 Specimens
Final Report

		1		Coxs	ackie	_ 1	S . • S
State	ЕСНО*	<u>B2</u>	<u>B4</u>	<u>B5</u>	Other ar	nd <u>TOTAL</u>	Reported By
Alabama Arkansas California Colorado Connecticut  D. C Florida Hawaii Illinois Indiana Iowa Kansas	9 3 1	20_ 75 75 1 000 1320 1320 1581 1581 10	- 2 - 35 - 1 1 1 - 4 1	2 -10 2 21 -1 -37 2 46	1 1 1 1 0 1 1 1 0 2 1 1 0 2 1 1 0 2 0 1 0 2 0 1 0 1 1	8 7 8 48	W. Smith & T. Hosty A. Fodor E. Lennette C. Mollohan G.D. Hsiung, G. Borman & J. Hart W. Wooldridge J. Bond K. Wilcox H. Shaughnessy J. Van Fleet R. Herren & T. Chin
nentucky	4 2	5 1	_	24 2	2	35 5	C. Hunter A. Fodor, B. Brown
Georgia Idaho	-	=	4	7	- -	4 7 (continued	& C. Todd W. Murphy D. Brock on next page)

Non-Polio Enterovirus Isolations from 1961 Specimens (Continued)
Final Report

ars of aseptic	dario be	orinseds	Co	xsac	kie		of isolates repor
natelv	ere ultin	1055 W		elle	Other and	dynia and	
State at the small	ECHO*	<u>B2</u>	<u>B4</u>		Unsp.	TOTAL	Reported By
Louisiana	savbin ad <b>5</b>	dance	2	DISC	FORSE BISTERS	7	J. Bruce & G. Hauser
Maryland	2	l Treau	5 889	55	1 on bouter over	64 and bens 28	C. Perry & C. Silverman
Mass.	accounts	2	, <b>4</b>	53	in run <b>12</b> was	sees.75 e	R. MacCready, T. Chang J. Enders
Michigan	I Danisani	6000	1	6		. mays 9 vs.	
Minnesota	81	18	3	53	5	160	H. Bauer assemis
Miss.	-	- 1 -	_	-	1	1	A. Fodor
Missouri			_	2	Listanias ets	w asın <b>2</b> ıei	•
Montana	argran	. Der		12		1 12 12	
N. H.	LAI DOS E	oaann	TEL II		no ne de original	grantina de	R. Miliner
N. J.	rage 25 10	2861	12	59	ided EC 0 9.	76.e.	
N. Y.	8	1	7 . 7	42	12	70	
N. C.	5 T	_	2	. Janii	The last as	8	
N. D.	ausipaa:	ing .	TREA	29	ngar goner ore mais = newells	29	
Ohio	14	Tato -	5	24	fact 3 fact or	46	L. Ey & C. Croft
Oklahoma	one Siave	LUMEN	. Y.J. 121	7	177131111111111111111111111111111111111		F. Hassler
Oregon	os tellos	ge 1 90	D.13.	6			G. Brandon & M. Skinner
Pennsylvania	8	a ra <del>n</del> i	7	104	mirts 1 no 7 am	120	K. Hummeler & .
The .	SECULT DECL	LOCA	. 1110		roged Lacil		I. Gratch
Rhode Island	Problement	_		42	colon more	42	A. Fodor & T. Chin
S. C.	1	_	2	_	Coxsacfie	4	G. McDaniel
Tennessee	E NAME OF	2	9	12	2	25	G. Cameron & C. Tucker
Texas ya be	31,037,1	J/ <b>17</b>	1	3	GE-13 ZE	<u>sa</u> 265	G. Irons, L. Rasmussen
Utah	3	::1	_	18	a - c	22	R. Fraser & A. Jenkins
Virginia		- 1	_	27		.27	W. Skinner
Washington	3	58	-	15	10 = 4	76	K. Berquist & W.Giedt
Wisconsin		1	4	24	_7	47	A. Evans obstolog
TOTAL	253	119	112	747	21 98	1320	Vonnectiont 1

<sup>\*</sup> Specific types include sixty-eight ECHO ll in Minnesota, two in Pennsylvania and in Michigan, and one in Wisconsin: twenty ECHO 9 in Texas, four each in California and Ohio, three each in Louisiana, Massachusetts and Wisconsin, two each in Utah and New York, and one in New Jersey. Other types reported include ECHO 2, 3, 4, 5, 6, 7, 14, 18, 21, 22 and 25.

(continued on next page)

#### 6. FOREIGN REPORTS

#### A. Canada

The Dominion of Canada enjoyed an unusually low incidence of poliomyelitis in 1961, with reports of only 186 paralytic cases. Preliminary surveillance case records similar to those used in this country have been received on 163 cases (87.6 percent). Six of the 12 provinces account for the cases reported and show them occurring largely in the unvaccinated preschool age group. The following table presents an analysis of cases by age and vaccination status.

), lechnic	Mark .H	oses	of Va	accine	C. LEVE	and the second	A CONTRACTOR OF THE PARTY OF TH
Age Grou	<u>0</u>	1	_2	3+	Unk	Total	Percent
0-4	49	6	3	11	2	71	43.6
5-9	26	1 2	1 1	9	1.1	38	23.3
10-19	20	1	1	8	2	32	19.6
20+	17	DARELL	2	2	ESKURIOUERO	21	12.9
Unk	ray 1.59 _3.6 ana1.5	ente Set	3 8 - 13 8 <del></del> 6		1		0.6
TOTAL	112	8	7	30	6	163	100.0
PERCENT						and the same of the same	
DOSES	68.7	4.9	4.3	18.4	3.7	100.0	

Virologic investigation carried out in 82 of these cases has yielded isolates in 62. Type III poliovirus accounted for 55 percent of isolates and type I for 45 percent. Type II was not encountered. As shown in the following table type III was prominent in Quebec, and type I in neighboring Newfoundland and Ontario.

CUL MUYL	Poli	ovir	us Type	<u>e</u> de respectit i	
Province	I	II	III	Negative	TOTAL
Newfoundland	6	7 <del>5</del> 0		N.1 2	7
Quebec	8	- 1 <u>-</u> 1	26	9	43
Ontario	8	_	1	E D-4	9
Saskatchewan	3		2	<del></del>	
Alberta	_3	o <del>ni</del> i	_5	<u>10</u>	18
TOTAL	28	io s debi	34	20	82
PERCENT	34.1	0.07	41.5	24.4	100.0

Of the 420 reported cases of aseptic meningitis, preliminary surveillance forms have been received on 179 (42.6 percent). Virologic investigation of 72 of these in four provinces again shows the frequent isolation of type III poliovirus in Quebec. In Alberta the Coxsackie viruses predominated, especially Coxsackie B4.

	Po	liov	irus	i aya	Co	xsac	kie		ECH	0 19	Other	
Province	Ī	II	III	<u>B2</u>	<u>B4</u>	<u>B5</u>	Other	6	9	Other	Viruses	Total
Quebec	1	_	22	3	3	3	10	. 5	6		3	51
Manitoba	Lac	WOL	ATILIA	nan_c	ia <u>b</u> a	MOT U	e shans	J <u>1</u> 0		U. M.LEIOU	GUSA. Li an la la facción	1
Saskatchewan	894	لائے دیا	aralyt	d ok	. VIII	10 31	salada.	a Tu	TH	(100) x	in all the same	1
Alberta	00 <u>.</u> 8	tinis LZ na	sed in Fine	o 17 La	9	6	11013 3		1971 1911	se case o los ca	neceiv <del>it</del> or	19
TOTAL	1	L.	23	3		9	14 <sup>rod</sup>	e in	6	eporte	r segen odt s Loodarvac	72

(This report has been abstracted from the Canadian <u>Epidemiological</u> <u>Bulletin 6(1): 1-2, 1961</u>, prepared by Dr. W. R. Simon, Technical Information Officer, Epidemiology Division, D.N.H.&W., Ottawa.)

#### B. Japan

A preliminary report of the 1961 epidemic of poliomyelitis in Kyushu, Japan, was presented in Poliomyelitis Surveillance Report No. 235 (August 25, 1961). A progress report of the current status of poliomyelitis incidence and the mass immunization campaign with oral vaccine has been received from Dr. Sinichi Matsuda, Chief, Department of Epidemiology, Institute of Public Health, Tokyo.

Through December 9, 1961, a total of 2,445 cases and 188 deaths had been reported to the Ministry of Health and Welfare. These figures are compared to recent years in the table below:

#### POLIOMYELITIS IN JAPAN

#### Cumulated Weekly for the Past Five Years

	1961 (Through Dec. 9)	1960 (Through Dec. 3)	1959 (Through Dec. 5)	1958 (Through Dec. 6)	1957 (Through Dec. 7)
Cases	2,445	5,324	2,754	2,556	1,663
Deaths	188	289	207	306	367

An analysis of incidence for the past two years by district is presented on the following page. The districts are arranged geographically from north to south. The major epidemic of 1960 which occurred in the northernmost district of Hokkaido is evident. In contrast, the highest attack rate during 1961 has occurred in the southernmost district of Kyushu.

Of the 420 reported cases of amptic meningitis, preliminary design surveillance forms have been received on 179 (42.5 percent investigation of 72 of these in four provinces a communication of type III policytrus in Quebec. In Alberta the Commackie viruses predominated, especially Commackie 84.

#### POLIOMYELITIS IN JAPAN By District, 1960-61

<u>District</u>			1961 1 12-9-61 Rate*	196 (Through Cases	60 12-3-60 Rate*	)
Hokkaido Tohoku Kanto Tokyo Hokuriku Chubu Tokai Kinki Chugoku Shikoku Kyushu		66 209 336 228 36 62 121 210 145 56 976	1.4 2.4 2.7 2.5 0.7 1.5 1.6 2.2 1.4 8.0	1,551 532 292 296 242 211 532 281 498 179 710	33.3 6.2 2.4 3.3 5.0 5.2 6.8 2.2 7.8 4.7 6.6	<sup>,</sup> **Rate per 100,000
TOTAL		2,445	2.8	5,324	6.2	100,000

The outbreak in Kyushu began in the early spring with a predominance of type 1 poliovirus isolated from the early cases. On July 20, a nation-wide immunization campaign was initiated with oral poliovaccine. This undertaking utilized the resources of 790 health centers, 1,049 villages, 1,922 towns and 566 cities. A total of 10 million doses of trivalent oral vaccine imported from the USSR and 3 million from Canada was administered to all children under six years of age during a three-week period (July 20 - August 10).

The incidence of poliomyelitis decreased abruptly within one month after the administration of the oral vaccine. This is dramatically shown below in both the table comparing incidence before and after the 35th week of the year and in the following figure.

Poliomyelitis Before and After Oral Vaccine: 1961 Compared to Previous Years

Year	(A) Wk. 1-34	(B) <u>Wk. 35-52</u>	TOTAL	(A)/(B)
1955	850	464	1,314	1.8
1956	957	540	1,497	1.8
1957	950	768	1,718	1.2
1958	1,841	769	2,610	2.4
1959	1,568	1,349	2,917	1.2
1960	3,030	2,576	5,606	1.2
1961	2,267	178	2,445*	12.7

<sup>\*</sup> Through 49th week.

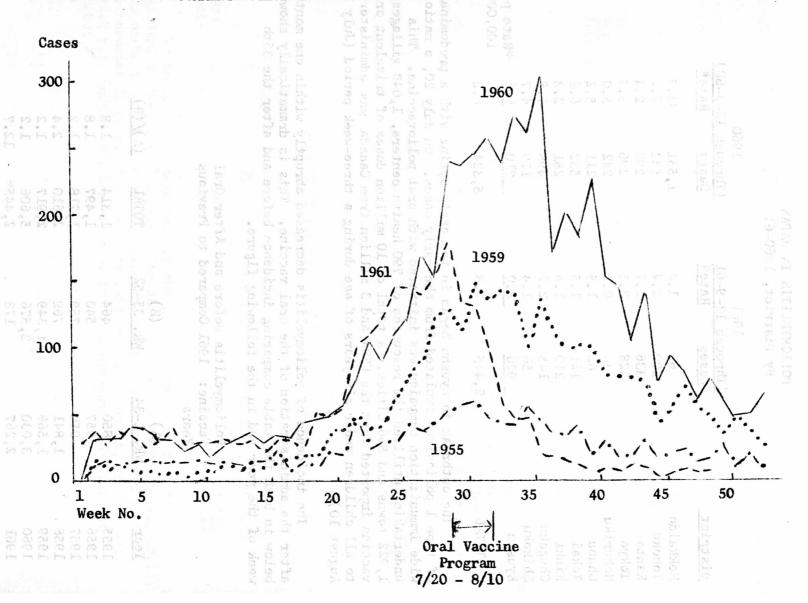


Figure 1 CURRENT U.S. POLIO INCIDENCE COMPARED WITH YEARS 1957, 1959, and 1961

DATA PROVIDED BY NATIONAL OFFICE OF VITAL STATISTICS
AND COMMUNICABLE DISEASE CENTER

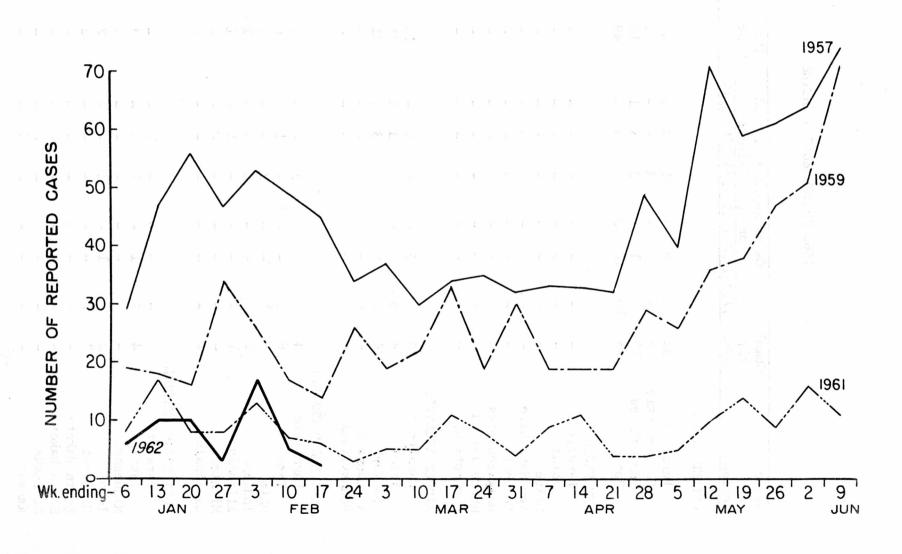


Table I
TREND OF 1962 POLIOMYELITIS INCIDENCE

State	Cumula	-	Case	es Rep	orted	to	CDC	Six		rable	
and	tive			or Wee				Week		Total	
Region	1962	1/13	1/20	1/27	2/3	2/10	2/17	Total	1961	1960	195
UNITED STATES											
Paralytic	32	4	8	4	11	2	1	30	33	89	94
Nonparalytic	8	1	1	_	3		-	5	12	22	18
Unspecified	15	5	1	1	3	3 5	1	14	14	15	16
Total	55	10	10	5	17	5	2	49	59	126	128
NEW ENGLAND											
Paralytic	-	-	-	_	-	-	-	-	1	5	2
Total		_	_	_	_	-	_	_	ī	5	2 2
Maine	_	_	-	_	_	-	_	_	_	ĭ	_
New Hampshire	_	_	_	_	_	_	_	_	_	_	-
Vermont	_	_	_	_	_	_	_	_	_	·	1
Massachusetts	_	_	_	_	_	_	_	_	_	4	1
Rhode Island	_	_	_	_		_	_	_			-
Connecticut	-	_	-	-	-	-	_	_	ī		•
MIDDLE ATLANTIC											
Paralytic	13	2	5	_	4	1	_	12	2	17	1
Total	24	5	6	_	6		1	21	3	24	1 7
New York	24	5	6	_	6	3 3	ī	21	2	22	3
New Jersey		_	_	_	_	_	_		ī	2	2 2
Pennsylvania			-	-	-	-	_	-	8 <b>=</b>		2
EAST NORTH CENTRA	L										
Paralytic	4	1	-	-	3	_	_	4	6	3	8
Total	6	1	_	-	4	1	_	6	11	12	10
Ohio	3	ī	-	_	2	_	_	3	6	9	3
Indiana	2	· _	_	_	2	_	_	2	_		
Illinois	ī		_	_	_	1	_	ī	2	2	
Michigan	_	_	-	_	_	_	_	_	ī	2.6	6
Wisconsin	_	-	-	-	_	_	-	-	2	្រា	1
WEST NORTH CENTRA	L										
Paralytic	_	_	_	_	_	_	_	-	1	4	8
Total	4	2	1	_	1	_	_	4	ī	7	11
Minnesota	_	_	-	_	_	_	_	-	ī	3	-
Iowa	2	an and an area	1		1	-		2	_	2	-
Missouri	2	2	_	_	_	_	_	2	_	ī	9
North Dakota	_	_	_	_	_	_	_	_			-
South Dakota	EL-0	00					_	_	_	1	1
Nebraska				Dar Service (p. 18)		-		_	_	_	1
							757.75				

				11,014	47.						
State and	Cumula- tive	an 000	For	Week	ted Endi	to CDC	ET SAUG	Six Week	Compa Weeks	rable Total	Six s in
Region	1962	1/13	1/20	1/27		2/10	2/17	Total	1961	1960	1959
SOUTH ATLANTI	Defice all	Sall AU	y IA.		Obje	01,16	UI .	MATERIAL			
Panalanti					1			T MMga	_		_
Paralytic Total	4	-	1	_	3	_	-	4	3	21	18
Tean	4	-	1	-	3	-	-	4	4	27	26
Delaware	-	-	-	-	-		-		100	- 481	_
Maryland	OUE P	-	_		_	-	-	_	n= 11.	- 40%	_
D. C. (	702.7	-	_	-	_	_	-	***	840	- Viol	-
Virginia	000.01	_	1		-	_	-	- 1	-=t!	450	1
"CSC Vincini	_ F1 C	-	-		_	748.	Aller	12.541	_ J	2	5
	7		_	-	1	-	-	1	1	8	ĭ
Journ Como 7 :	na 1	_	_		ī	_	_	ī	_	ĭ	2
- COI D 13	Ana na	_	_		_		_	_		ī	ĩ
Florida	008.791	_	_		ī		_	ī	2	15	
		-	-	0.00	- <del>-</del>	200	A 1		2	12	16
EAST SOUTH CE	ENTRAL			1 / 1	4						
- algiviic	2			2	1			2		3	9
1012	.305;01 <mark>3</mark>			2	1	<u></u>		3	7	4	13
Mentucker	_		_	_	-	_	_	_	7	3	4
ennegge	50x (1		_	_	ī	_	_	ī		3	
TgDama	#33,42b	_	_	The g	-	PEP.	E	, T	7	11.0%	4
Mississippi	33 1 . T . <b>2</b>	_	_	2		28 7	di	E 1	eact:	- 30%	1
Thir		_	_	2	_		J. [	2	1.50	, l	4
WEST SOUTH CE	TA OFF W									- 150	
Paralytic			18	-1.00	35	Alin I	72	1.71		tror	
Total	6	1	_	2	1	1	1	6	3	6	21
Arkansas	7	1	-	2	2	1	1	7	6	.8	28
Louisas	Sep 11-	-	-		_		_	7 0 v =	1,,,,,	701	5
Louisiana	2	-	_	1		ī	-	2	1	3	3
Oklahoma	Description	-	_	_		- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	_	17.1	\$71.50 S	1	3
Texas	5	ı	_	1	2	4	1	5	4	4	17
MOUNTAIN	The second second				43 		i i i i i i i i i i i i i i i i i i i		590	- 300	
DIAIN										SIVI	
Paralytic	1	_	-	_	_	-	_	_	<b>7</b> ·	4	3
	3	-	-	1	_	-	-	1	10	8	4
Montana	281,111 <b>2</b>	_	_	3 <u>8</u> 7.	_	1	-	Q.A	TISK	4	_
T(12P -	EAT, 15_ 1	P	_	322.		die,	ĵ	- 151	52 (II)	- 4qA	_
VOmin	08 ( as_ a	2,58	_	0.2	6/_	501.	e _	98 _	Scot	- vilui.	_
2010m27	027,730	10.1		2.10	_	2254	la _		3	Jino	_
W Mossi	847 82			722		221	35	160		MINE	-
	the state of the s	·			-		The same	COMMANDE CONTRACTOR	- 2		2
v cah	-	-	-	-	-	-	-	7	1	: (12)(1	2
Nevada	Seo. 1	os r	-	1	_	2.00	-	1	3	400	_
	_	→ <sup>4</sup> (—	-	978	. <b>_</b>	200	~ _	-	_cateria.	- 1004	-
PACIFIC	260,81	12 12 F				048,	Ø:		Jume		
Paralytic	16,44w	10,5	_			160.	5		Jaes -	- y,Int	
	111, 12	34.5	2					2	10 00	26	24
Vashin	075.54	00, <b>1</b>	2	( <del>4</del> 0)		1.000	04 <del>-</del>	3	16	31	27
Vashington Oregon	_	-	-	-	-	-	-	-	_	3	1
	_	-	_		_	_	-	_	2	4	
California	80,04	1	2	160			ja	S 3	13	23	21
	지수는 것 ! 6	IL I	_	430,	_	4 <u>0</u> 0,	3 _	1	- Oath		~1
lawaii	13,721	č	_	678.	3	800,0	_	8	1	- Jul	3
	s 5,340	3	_	ago.	2	860	Ú.	0	599	- 350	3
TERRITORY	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	351		177	Carrier Commercial Com	TIP.	35	17 [			
Puerto Rico	and the second s	The state of the same									,
	399,744	-	<del>**</del>	āir.	-	and.	Tarres 3e	875.41	L LATEA	11	1
	ACC 1211 1 21	06.41			1.345 3						

Table II

# QUARTERLY SHIPMENTS OF POLIOMYELITIS VACCINE; 1955 - 1961 (1,000 cc's)

<u>SŁ</u>	1. <b>09</b> 61 1961	NATIONAL FOUNDATION	PUBLIC AGENCIES	COMMERCIAL CHANNELS	QUADRUPLE ANTIGEN	DOMEST:	IC LIVALITA HIL
	3 21	<u> </u>		E J.	4.0	4	Perelytic
90	1955:						Total
	Jan - Mar	-107					STEWNS
1700	Apr - June	-			No.	9,300	(est.)
	July - Sept	7000	**** <b>**</b> ***		**	9,200	(est.)
Ĭ.	Oct - Dec			- I		9,000	(est.)
3	TOTAL	13,541	7,893	- 6,223		-27,657	st Virginia
I	3056.	I	460	3 A.A. 460			rth Carolin
7	1956:		war Alle	1 -	***		aflogsU nar
1	Jan - Mar	WAR	mar. The street	,		11,800	(est.)
9.1		I -				27,800	(est.) him
	July - Sept	2	14,178	7,509		21,689	an urune 72
D.	Oct - Dec	<u>_</u>	4,857	4,434		9,292	Parent value
5 1	TOTAL	194	45,588	24,784		70,566	THE
	3 0.42						volonite
	1957:	f	_	£		f	592E4M
T	Jan - Mar	8	19,935	13,483		33,426	needs
N.	Apr - June	143	16,738	10,277		27,158	horiente:
	July - Sept	- 1	11,811	12,594		24,406	and the same of the
	Oct - Dec	2	1,542	1,712		3,256	10 101102 TE
	TOTAL	154	50,026	38,066		88,246	V
83	1958:			\$ 2	1	2	Issor
	Jan - Mar	100	3,419	8,089		11,598	3.5.20.53
	Apr - June	2	6,249	7,947		14,198	Lensiell
3	July - Sept	101	4,903	7,801		12,805	
14	Oct - Dec	8 [1]	3,962	4,492	I.	8,454	1
	TOTAL	203	18,533	28,319		47,055	ser amist
	T A COLUM		-G 994	and were said			paral wile
4	1959:		262	- I	egiter.		LatoT
	Jan - Mar	80	4,307	5,782	-	10,169	Itana
	Apr - June	_	7,836	13,332	581	21,749	ndi
100	July - Sept	80	9,160	14,524	2,586	26,350	griad
	Oct - Dec	_ 1	4,855	3,915	1,010	9,780	nh.com
	TOTAL	160	26,158	37,553	4,177	68,048	ooke M S
\$		190	#10 UNA	1000 miles 1000	(pain		Lzona
-	1960:	1	M01 ****	ww P		Ä	rii
	Jan - Mar		4,296	5,370	1,426	11,092	abay
	Apr - June	_	6,149	9,763	2,093	18,005	
	July - Sept	1	7,691	6,725	2,025	16,442	OLTE
AS	Oct - Dec	2 8	-1,900	- 3,141	1,662	6,711	Paralytic
TS	TOTAL 01	€ 9	20,036	24,999	7,206	52,250	Leiol
1	1961:	***	No.		100	-	mington
-	Jan - Mar	2	4,512	4,092	1,812	10,418	nog
13	Apr - June	E 2	8,054	7,064	1,318	16,443	SINTOLA
-		8	5,078		56	13,721	8118
ε	July - Sept Oct - Dec	0		8,579 2,036	36	5,340	1.7.8
	TOTAL	17	3,268	21,771	3,222	45,922	- V 907 T 9
	TOTAL		20,312	41, [ ]	3,444	73,344	
1	GRAND TOTAL	14,278	189,146	181,715	14,605	399,744	mto Kico

Figure 2 QUARTERLY SHIPMENTS OF POLIOMYELITIS VACCINE (Inactivated)
1955—1961

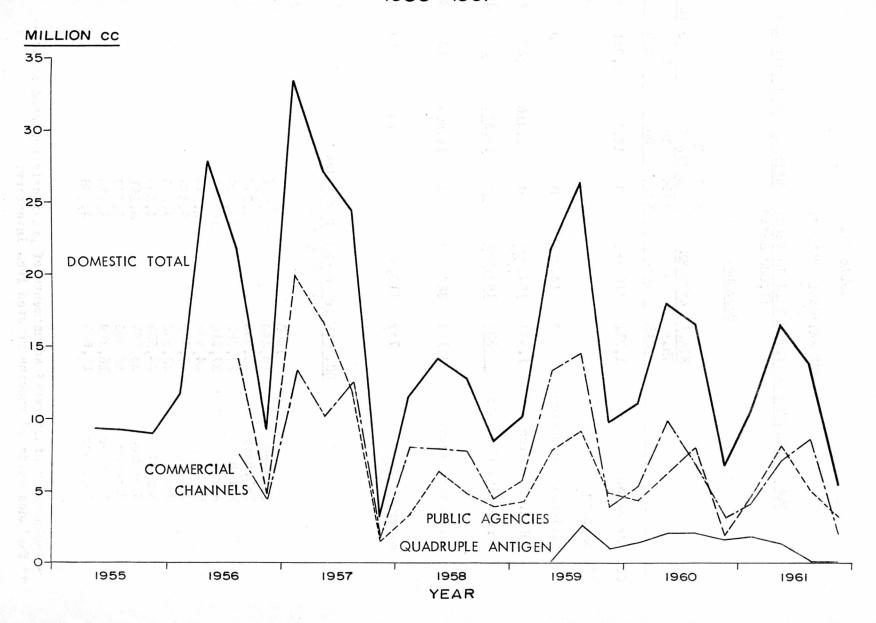


Table III
THE NATIONAL FOUNDATION

# MONTHLY REPORT OF POLIOMYELITIS VACCINE RELEASED AND SHIPPED\* (1,000 cc's)

#### December 1961

		SINGLE	ANTIGEN	MULTIF ANT	PLE PIGEN	TOTA	\L
		This Month	To Date	This Month	To Date	This Month	To Date
cc.	Released	1,911	510,566	0	15,586	1,911	526,152
CC.	Shipped						
	National Foundation	0	14,261	0	0	0	14,261
	Public Agencies	1,474	184,091	0	1,416	1,474	185,507
	Commercial Channels	689	186,088	_2	13,387	691	199,475
	Domestic Total	2,163	. 384,440	2	14,803	2,165	399,243
	Export	759	110,570	0	634	759	111,204

CC.	UNSHIPPED	END	OF	MONTH**
	(1,00	00 cc	2°s	)

	1960	1961
January	19,459	14,755
February	20,965	15,737
March	27,062	13,414
April	27,216	10,887
May	24,846	6,448
June	24,620	6,558
July	23,830	4,233
August	24,525	4,599
September	23,091	6,181
October	19,565	5,543
November	16,319	5,139
December	15,669	4,038

<sup>\*</sup> Includes manufacturers adjustments of previously reported figures.

<sup>\*\*</sup> Excludes outdated vaccine removed from inventory.